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SEP 27 2007

Amendments to the Claims

This listing of claims will replace all prior versions of claims in the application.

Listing of Claims:

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1-10. *(cancelled)*

11. *(currently amended)* An apparatus for bottom seeding crystal growth comprising,

- a) a vessel for holding seed crystal therein with precursor charge or melt thereon,
- b) means for installing said seed crystal and said charge in said vessel,
- c) a small inner elongated electrode mounted within said vessel at or near the vertical axis thereof, which electrode extends into said charge or melt but does not contact said crystal,
- d) an outer electrode of graphite which extends at least partially around said inner electrode, and proximate the inner walls of said vessel,
- e) heater means to heat said charge to a molten state to form a melt,
- f) means for applying a voltage across said electrodes to generate a radial electric current in said melt,
- g) an induction coil mounted around the vessel and
- h) means for applying voltage to said coil to impose magnetic field lines in said melt such that the flow of said radial electric current crosses said magnetic field lines to impart a stirring force to said melt for greater uniformity in melt and crystal.

12. *(previously presented)* The apparatus of claim 11 wherein said vessel walls serve as said outer electrode.

13. *(previously presented)* The apparatus of claim 11 wherein said coil serves as said heater means and said induction coil.

14. *(previously presented)* The apparatus of claim 11 wherein said small electrode is mounted in a heater housing, which housing is sized to leave one or more annular spaces between it and the inner walls of said outer electrode, said